

2/4

P1 → P5 →
ATGGGACGTGGAGGTTGAGATCAAGAGGATTGAGAACTCAAGTAACAGGCAGGTGACC
M G R G K V E I K R I E N S S N R Q V T

TACTCCAAGAGGAGGAATGGGATTATCAGAAGGCAAGGAGATCACTGTTCTATGTGAT
Y S K R R N G I I K K A K E I T V L C D

GCTAAAGATCTCTTATCATTTATTCTAGCTCTGGAAAGATGGTTGAATACTGCAGCCCT
A K V S L I I Y S S S G K M V E Y C S P

TCAACTACGCTGACAGAAATCTGGACAAATACCATGGACAATCTGGGAGAAGTTGTGG
S T V T L T E I L D K Y H G Q S G K K L W

P3 →
GATGCTAACCATGAGAACCTCAGCAATGAAGTGGATAGAGTCAGAAAGACAATGACACC
D A K H E N L S N E V D R V K K D N D S

↑ P4 →
ATGCAAGTAGAGCTCAGGCATCTGAAGGGAGAGGATATCACATCATTGAACCATGTAGAG
M Q V E L R H L K G E D I T S L N H V E

↑
CTGATGGCCTAGAGGAAGCACTTGAAGGAGAGGATATCACATCATTGAACCATGTAGAG
L M A L E E A L E N G L T S I R D K Q V S

↑
AAGTTCGTCGACATGATGAGAGACATGGAAAGGCACTGGAGAGATGAGAATAAGGCCCTC
K F V D M M R D N V G K A L E D E N K R L

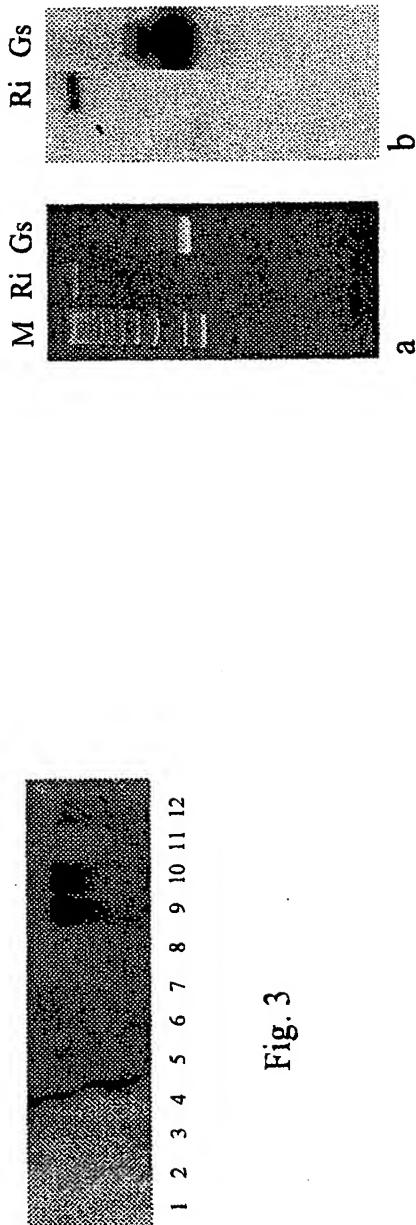
↑
ACTTATGAGCTGCAAAACAAACAGGGAGATGAAAATAAAAGAGAATGTGAGAAACATGGAA
T Y E L V Q K Q Q E M K I K E N V R N M E

↑
AATGGGTATCATCAGAGGCACTGGGAACTACAACAACACCAGCAGCAGATACTTTT
N G Y H Q R Q L G N Y N N N Q Q Q I P F

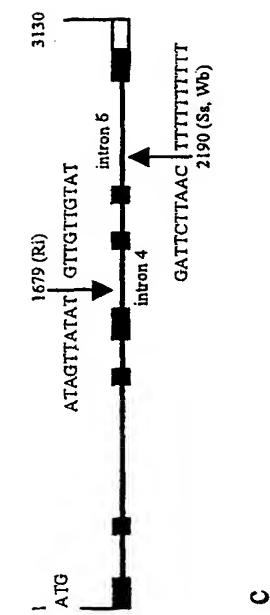
P2
GCCTTCCGGCTGCAGCCTATTCAAGCCAAATCTCCAGGAGAGATCTAAATTAGATATCT
A F R V Q P I Q P N L Q E R I

TGCATTTGATGCTTTCTAACTAGTTATATTATCTCCACCTCTCTCTCTCTCTCTCT
TCTGTCAGGAGTTCTAAGTTATGTCAGATTCCAATGGTTGTAAATGGAATTAGCTT
CGTTATGAGGCTTGTGAAACCTTGTAAATAATTAAAGGCGTGCATGAACTCGGTTGTG
← P7 ← P6
GGAAAAAAAAAAAAAAAAAAAAA 868 ← 3' RACE

Fig. 2



Eig. 3



5

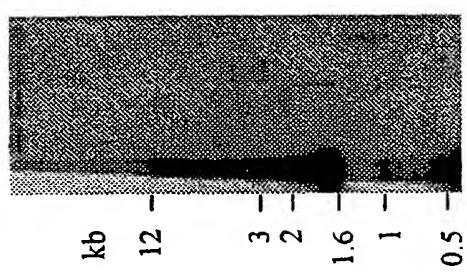


Fig. 4

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ATGGCGCGCGGGAGATTGAAATCAAGCTGATCGAARACCAAGACCARACAGGCAGGTGACC
 M A R G K I E I K L I E N Q T N R Q V T
 TACTCCAAGAGAAGAAATGGGATCTCAAGAAGGCTCAGGAGCTCAGCGTTCTGTGAT
 Y S K R R N G I F K K A Q E L T V L C D
 GCCAAGGTCTCCCTCATTATGCTCTCCAACACTAATAAAATGCACGAGTATATCAGCCCT
 A K V S L I M L S N T N K M H E Y I S P
 ACCACTACGACCAAGAGTATGTATGACTATCAGAAAACATATGGGATCGATCTGTGG
 T T T T K S M Y D D Y Q K T M G I D L W
 AGGACACACGAGGGAGTCGATGAAAGACACCTTGGAAGTTGAAAGAGATCAACAATAAG
 R T H E E S M K D T L W K L K E I N N K
 CTGAGGAGAGAGATCAGGCAGAGGTGGGCCATGATCTAAATGGCCTGAGCTTGACGAG
 L R R E I R Q R L G H D L N G L S F D E
 CTGGCTCTTGACGATGAGATGCAGTCTCCTGGATGCCATACGTCAAAGGAAGTAC
 L A S L D D E M Q S S L D A I R Q R K Y
 CATGTGATCAAAACTCAGACGGAGACCACCAAGAAGAAGGTTAAGAACATTGGAGCAAAGA
 H V I K T Q T E T T K K V K N L E Q R
 AGAGGAACATGCTGCATGGCTATTTGACCAGGAAGCAGCCGGGAGGATCCACAGTAT
 R G N M L H G Y F D Q E A A G E D P Q Y
 GGTTATGAGGACAATGAGGGAGACTACGAATCTGCACTTGCAATTGCTAAATGGGCGAAT
 G Y E D N E G D Y E S A L A L S N G A N
 AACCTGTACACTTCCACCTCCACCCCTAACCTCCACCGAGGAAGCTCGCTCGGC
 N L Y T F H L H R P N L H H G G S S L G
 TCCCTCATTACTCATGCACTGCACTGCTTGCCTTGCTGATCGTGTGAGATATGATTA
 S S I T H L H D L R L A *
 ATCATCACTAAGTTATATATTAAGGTCACTTATAACTGCTTTGCTCTAAAGTGTGCT
 TGGTGAATCTTAGGCAAGGAGTTAGACTTGGACTACCTCTGAAAACAGATGCATAAA
 TATGTGTGTGGTTAATCAATGATAGCACTAAAAAAATCCGCGCCCTGTTGCTTGT
 GGGTTTGTATAATTAATCTATTCTATATATCATGGCAGACATTGCTTTG
 ATAAAAAAAAAAAAAAA 982

Fig. 6